

Estimated federal obligations for R&D and R&D plant, by selected agency, performer, and character of work: FY 2009

Agency	Extramural performers										
	All federal obligations	Federal intramural	Business firms	United States and U.S. territories							Foreign
				Industry FFRDC	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
Total R&D and R&D plant											
All agencies	136,996.5	31,246.9	53,677.4	4,182.2	32,169.9	4,069.2	7,202.2	3,456.4		391.0	601.3
Department of Agriculture	2,347.2	1,576.9	17.1	0.0	714.5	0.0	24.4	0.0		10.8	3.5
Department of Commerce	1,533.3	1,178.3	66.1	0.0	260.8	2.2	23.6	1.0		1.3	0.1
Department of Defense	68,230.2	17,351.0	46,345.0	321.7	2,425.5	319.3	501.9	703.0		9.2	253.5
Department of Education	322.4	15.6	20.7	0.0	217.2	0.0	68.4	0.0		0.5	0.0
Department of Energy	11,562.2	982.5	1,180.5	2,966.8	1,342.6	2,405.3	166.1	2,498.6		17.2	2.7
Department of Health and Human Services	35,735.9	6,630.0	1,912.2	795.8	20,514.2	61.0	5,289.8	60.0		172.5	300.6
Department of Homeland Security	983.6	399.7	238.9	77.9	89.1	13.4	54.6	105.5		4.1	0.3
Department of the Interior	738.8	602.5	48.1	0.0	70.9	0.0	2.7	0.0		13.5	1.1
Department of Justice	94.0	25.1	16.6	0.0	33.4	0.0	7.3	0.0		11.6	0.0
Department of Transportation	846.3	226.5	333.4	1.6	62.7	6.6	40.5	45.8		128.4	0.7
Department of Veterans Affairs	510.0	510.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
Agency for International Development	160.1	10.6	10.9	0.0	30.2	0.0	101.2	0.0		0.0	7.2
Environmental Protection Agency	552.8	414.1	68.1	0.0	52.9	0.0	15.9	0.0		0.8	1.2
National Aeronautics and Space Administration	5,937.1	916.3	3,050.8	0.9	730.4	1,023.7	189.7	17.2		1.5	6.7
National Science Foundation	6,924.8	68.3	279.7	0.0	5,604.6	230.8	699.5	4.7		17.5	17.0
Smithsonian Institution	226.7	226.7	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
All other agencies	291.1	112.9	89.3	17.4	21.2	6.9	16.7	20.7		2.1	6.7
R&D											
All agencies	133,349.0	30,442.3	53,301.6	4,054.5	31,563.0	3,362.6	7,047.8	2,588.1		389.8	599.3
Department of Agriculture	2,269.7	1,499.4	17.1	0.0	714.5	0.0	24.4	0.0		10.8	3.5
Department of Commerce	1,146.9	845.0	66.1	0.0	213.2	2.2	18.1	1.0		1.3	0.1
Department of Defense	68,113.0	17,333.5	46,245.4	321.7	2,425.4	319.3	501.9	703.0		9.2	253.5
Department of Education	322.4	15.6	20.7	0.0	217.2	0.0	68.4	0.0		0.5	0.0
Department of Energy	9,889.9	977.1	1,100.0	2,839.4	1,331.8	1,791.0	166.1	1,664.6		17.2	2.7
Department of Health and Human Services	35,584.0	6,533.2	1,912.2	795.8	20,476.5	61.0	5,272.4	60.0		172.5	300.6
Department of Homeland Security	672.5	246.6	119.6	77.6	88.8	13.4	51.8	71.2		3.2	0.3
Department of the Interior	732.4	602.5	41.7	0.0	70.9	0.0	2.7	0.0		13.5	1.1
Department of Justice	94.0	25.1	16.6	0.0	33.4	0.0	7.3	0.0		11.6	0.0
Department of Transportation	826.0	226.5	313.1	1.6	62.7	6.6	40.5	45.8		128.4	0.7
Department of Veterans Affairs	510.0	510.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
Agency for International Development	160.1	10.6	10.9	0.0	30.2	0.0	101.2	0.0		0.0	7.2
Environmental Protection Agency	552.8	414.1	68.1	0.0	52.9	0.0	15.9	0.0		0.8	1.2
National Aeronautics and Space Administration	5,937.0	916.3	3,050.7	0.9	730.4	1,023.7	189.7	17.2		1.5	6.7
National Science Foundation	6,095.2	22.0	230.5	0.0	5,094.2	138.5	570.8	4.7		17.5	17.0
Smithsonian Institution	152.0	152.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
All other agencies	29										

Appendix table 4-31

## Estimated federal obligations for R&amp;D and R&amp;D plant, by selected agency, performer, and character of work: FY 2009

(Millions of current dollars)

Agency	Extramural performers									
	All federal obligations	Federal intramural	Business firms	United States and U.S. territories						Foreign
				Industry FFRDC	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Veterans Affairs	203.3	203.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	0.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	83.7	63.2	10.0	0.0	7.8	0.0	2.3	0.0	0.1	0.2
National Aeronautics and Space Administration	1,021.6	153.2	264.9	0.7	327.4	193.4	78.4	2.3	0.3	1.2
National Science Foundation	5,623.9	20.7	126.0	0.0	4,748.4	138.4	557.2	1.3	17.4	14.4
Smithsonian Institution	152.0	152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	9.6	1.9	0.2	0.0	5.7	0.0	1.8	0.0	0.0	0.0
Applied research										
All agencies	30,830.9	7,802.0	4,653.1	2,392.2	11,939.9	183.8	3,013.3	402.9	249.2	194.5
Department of Agriculture	1,154.0	684.0	16.3	0.0	430.4	0.0	14.1	0.0	7.6	1.5
Department of Commerce	820.8	587.0	41.2	0.0	176.9	2.2	12.7	0.3	0.6	0.0
Department of Defense	5,071.4	1,549.7	2,557.7	56.7	660.5	29.1	157.7	30.5	0.7	28.9
Department of Education	198.4	9.6	8.3	0.0	145.1	0.0	35.4	0.0	0.0	0.0
Department of Energy	3,127.2	478.6	147.3	1,902.3	162.0	88.7	56.2	283.7	8.5	0.0
Department of Health and Human Services	16,717.7	2,840.0	992.0	374.0	9,683.1	31.8	2,521.8	30.5	97.9	146.6
Department of Homeland Security	245.9	116.2	50.0	40.1	18.1	5.9	7.5	6.9	0.8	0.3
Department of the Interior	610.5	497.2	40.0	0.0	60.8	0.0	2.1	0.0	9.2	1.1
Department of Justice	71.5	9.0	16.6	0.0	33.1	0.0	7.3	0.0	5.5	0.0
Department of Transportation	586.7	171.0	185.1	1.6	50.5	6.6	33.4	22.9	115.3	0.3
Department of Veterans Affairs	274.0	274.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	159.6	10.6	10.9	0.0	29.7	0.0	101.2	0.0	0.0	7.2
Environmental Protection Agency	384.4	286.8	47.8	0.0	37.2	0.0	11.1	0.0	0.5	0.8
National Aeronautics and Space Administration	681.8	190.1	357.8	0.1	91.3	12.6	24.7	4.2	0.7	0.4
National Science Foundation	471.3	1.3	104.6	0.0	345.8	0.1	13.6	3.4	0.1	2.6
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	255.8	97.0	77.5	17.4	15.4	6.9	14.4	20.7	1.8	4.7
Development										
All agencies	69,640.2	17,116.4	47,017.1	983.9	1,390.5	1,214.4	546.7	1,126.1	46.2	198.8
Department of Agriculture	191.7	172.7	0.0	0.0	17.4	0.0	1.2	0.0	0.1	0.3
Department of Commerce	187.8	145.3	18.2	0.0	22.5	0.0	1.1	0.0	0.7	0.0
Department of Defense	61,306.5	15,377.6	43,466.3	255.6	774.5	287.0	275.3	669.8	7.7	192.7
Department of Education	119.7	5.8	12.4	0.0	69.3	0.0	31.8	0.0	0.5	0.0
Department of Energy	2,701.8	451.5	878.2	700.5	126.1	103.4	63.6	369.9	8.7	0.0
Department of Health and Human Services	94.1	32.4	0.0	0.0	25.3	0.0	33.1	0.0	3.3	0.0
Department of Homeland Security	325.3	113.3	63.0	27.7	16.6	6.3	43.7	52.8	2.0	0.0
Department of the Interior	74.8	62.5	1.5	0.0	6.9	0.0	0.5	0.0	3.4	0.0
Department of Justice	22.5	16.1	0.0	0.0	0.3	0.0	0.0	0.0	6.1	0.0
Department of Transportation	239.2	55.4	128.0	0.0	12.2	0.0	7.0	23.0	13.2	0.5
Department of Veterans Affairs	32.7	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	84.7	64.0	10.2	0.0	7.9	0.0	2.4	0.0	0.1	0.2
National Aeronautics and Space Administration	4,233.5	573.1	2,428.0	0.2	311.7	817.7	86.6	10.7	0.5	5.1
National Science Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	25.7	13.9	11.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0
R&D plant										
All agencies	3,647.5	804.6	375.8	127.7	606.9	706.6	154.4	868.3	1.2	2.0
Department of Agriculture	77.5	77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	386.4	333.3	0.0	0.0	47.6	0.0	5.5	0.0	0.0	0.0

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	United States and U.S. territories									Foreign
	All federal obligations	Federal intramural	Business firms	Industry FFRDC	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Defense	117.2	17.5	99.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Department of Education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,672.3	5.4	80.5	127.4	10.8	614.3	0.0	834.0	0.0	0.0
Department of Health and Human Services	151.9	96.8	0.0	0.0	37.7	0.0	17.4	0.0	0.0	0.0
Department of Homeland Security	311.1	153.1	119.3	0.3	0.3	0.0	2.8	34.3	0.9	*
Department of the Interior	6.4	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	20.3	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	829.6	46.3	49.2	0.0	510.4	92.3	128.7	0.0	0.0	0.0
Smithsonian Institution	74.7	74.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	2.0

FFRDC = federally funded research and development center

<sup>a</sup>Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Detail may not add to total because of rounding. Agencies with total annual R&D of \$100 million or more. Includes obligations from the additional federal R&D funding appropriated by the American Recovery and Reinvestment Act of 2009. All other agencies includes Department of Housing and Urban Development, Department of Labor, Department of State, Department of the Treasury, Appalachian Regional Commission, Federal Communications Commission, Federal Trade Commission, Library of Congress, National Archives and Records Commission, Nuclear Regulatory Commission, Social Security Administration.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development: FY 2009–11.

*Science and Engineering Indicators 2012*